

TITLE

INTEIN-MEDIATED PROTEIN SPLICING

ABSTRACT

5 The present invention provides methods for intein-mediated protein
splicing, particularly in plants. This permits *in vivo* and *in vitro* synthesis of
homogeneous and large multi-functional hybrid protein polymers and
circular proteins. Additionally, methods are provided which are suitable for
the regulation of transgene expression, such that a particular transgene is
expressed only under selected environmental conditions, in selected plant
10 tissues, at selected development stages, or in selected plant generations.